

1/19

Prototype Gene Targeting Strategy

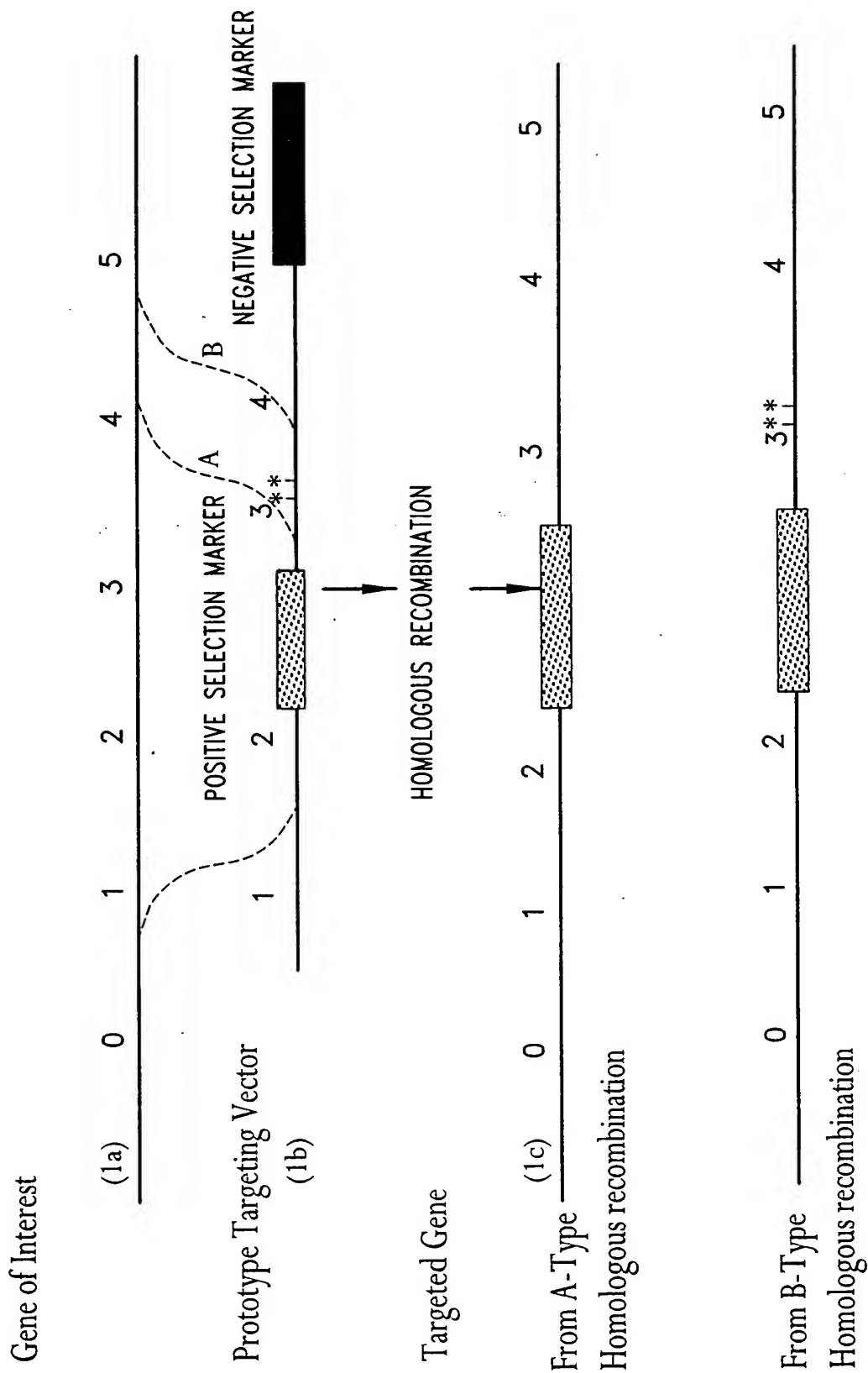
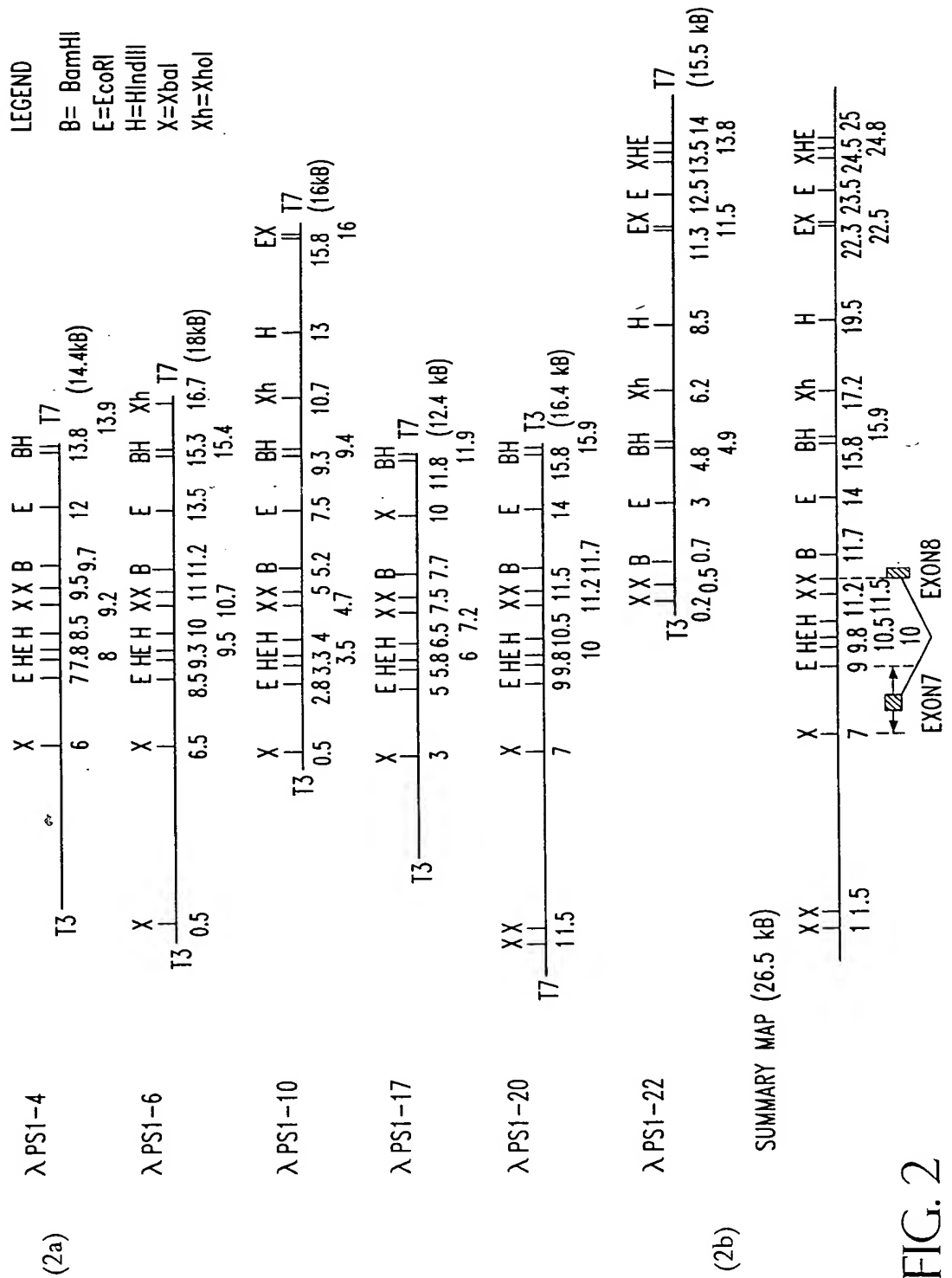


FIG.1

2/19

Mouse PS-1 Exon 8 Region Genomic Clone Maps



3/19

Restriction Mapping With FLASHTM Gene Mapping Kit

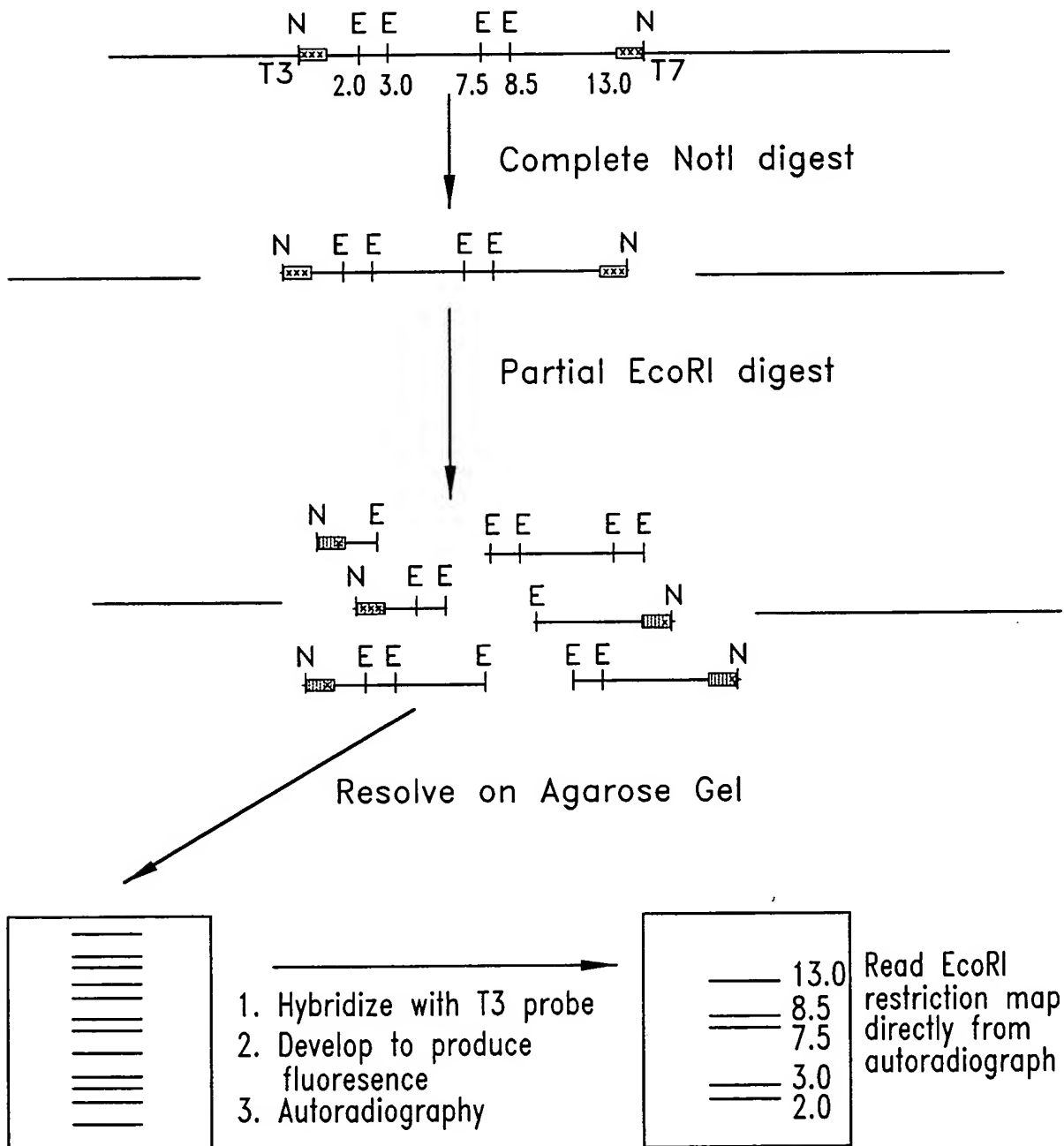


FIG. 3

4/19

Strategy Used to Place Exons 7 and 8 on PSI Restriction Map

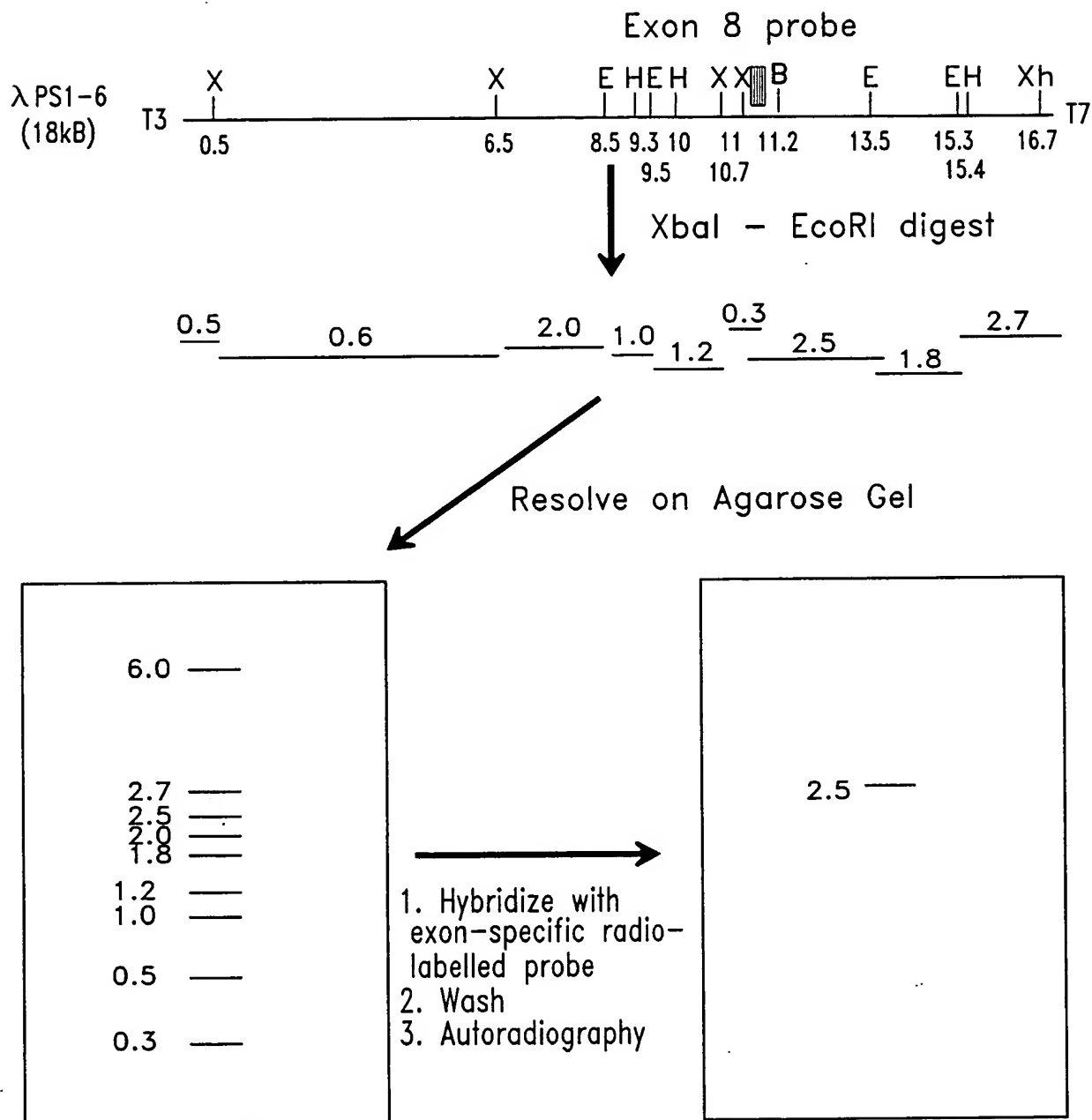
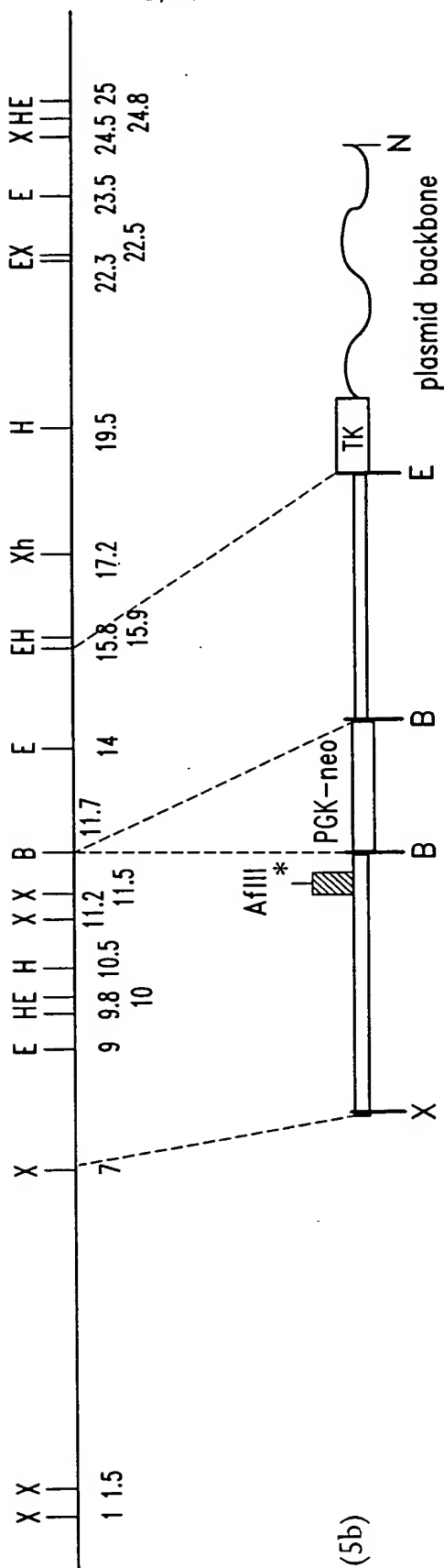


FIG. 4

PS1 Exon 8 Region Genomic Map & pPS1-8-TV Replacement Vector

(5a)



5' arm of homology

3' arm of homology

LEGEND

EcoRI - E

HindIII - H

XbaI - X

XhoI - Xh

BamHI - B

FIG. 5

6/19

pPNTlox² Synthesis

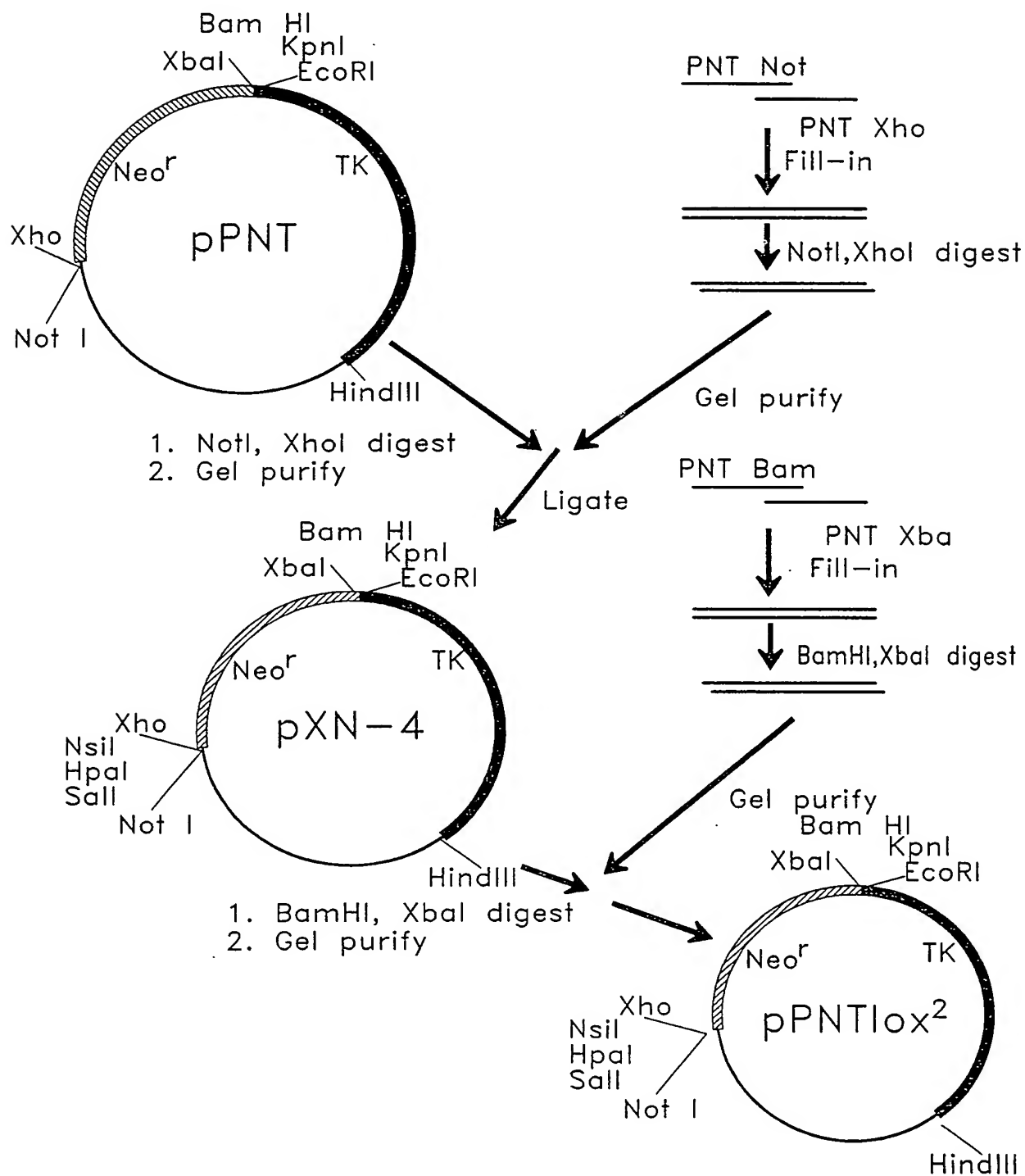


FIG. 6

7/19

pPS1-XH16 Construction

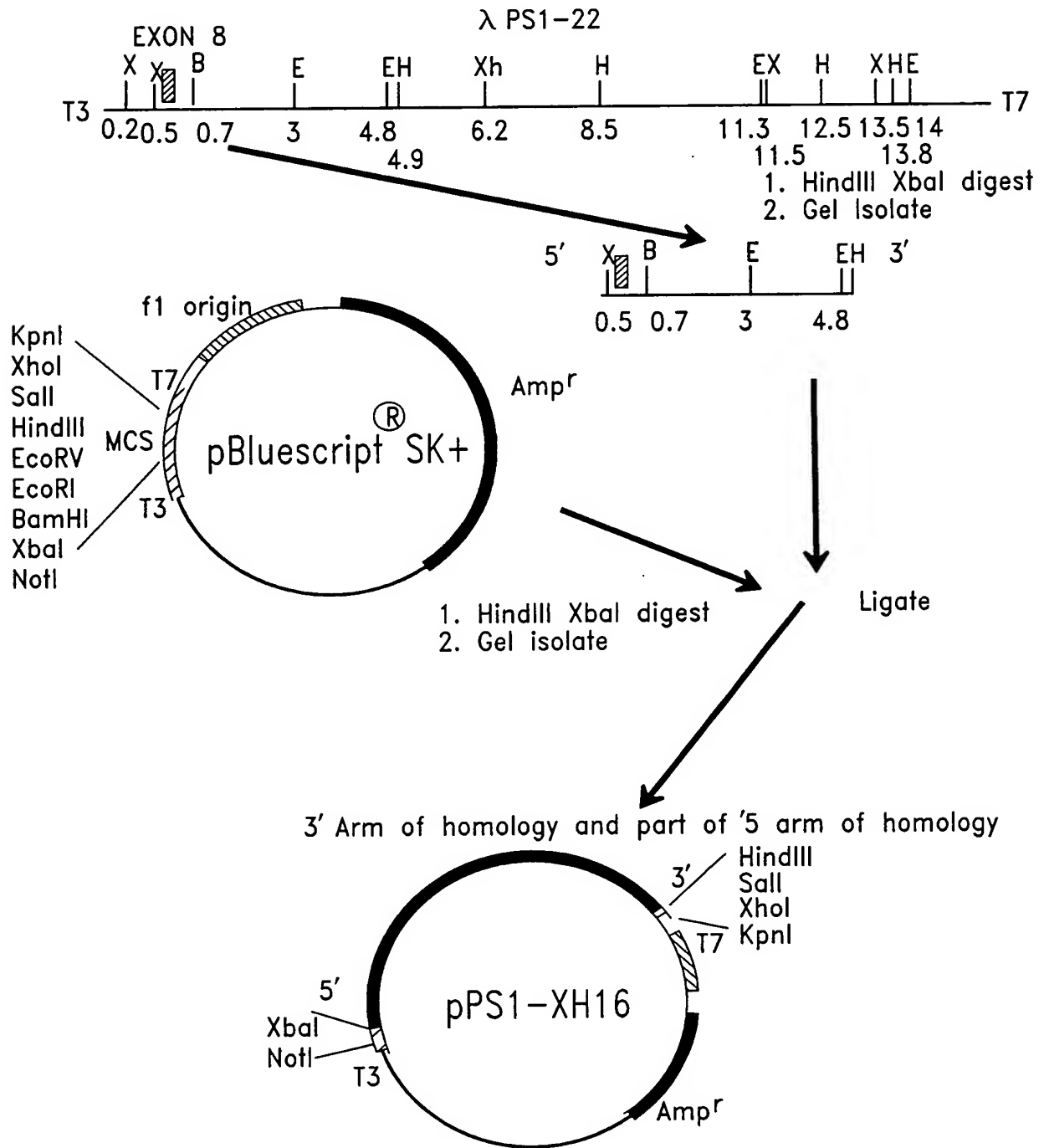


FIG. 7

8/19

pPS1-XB1 Construction

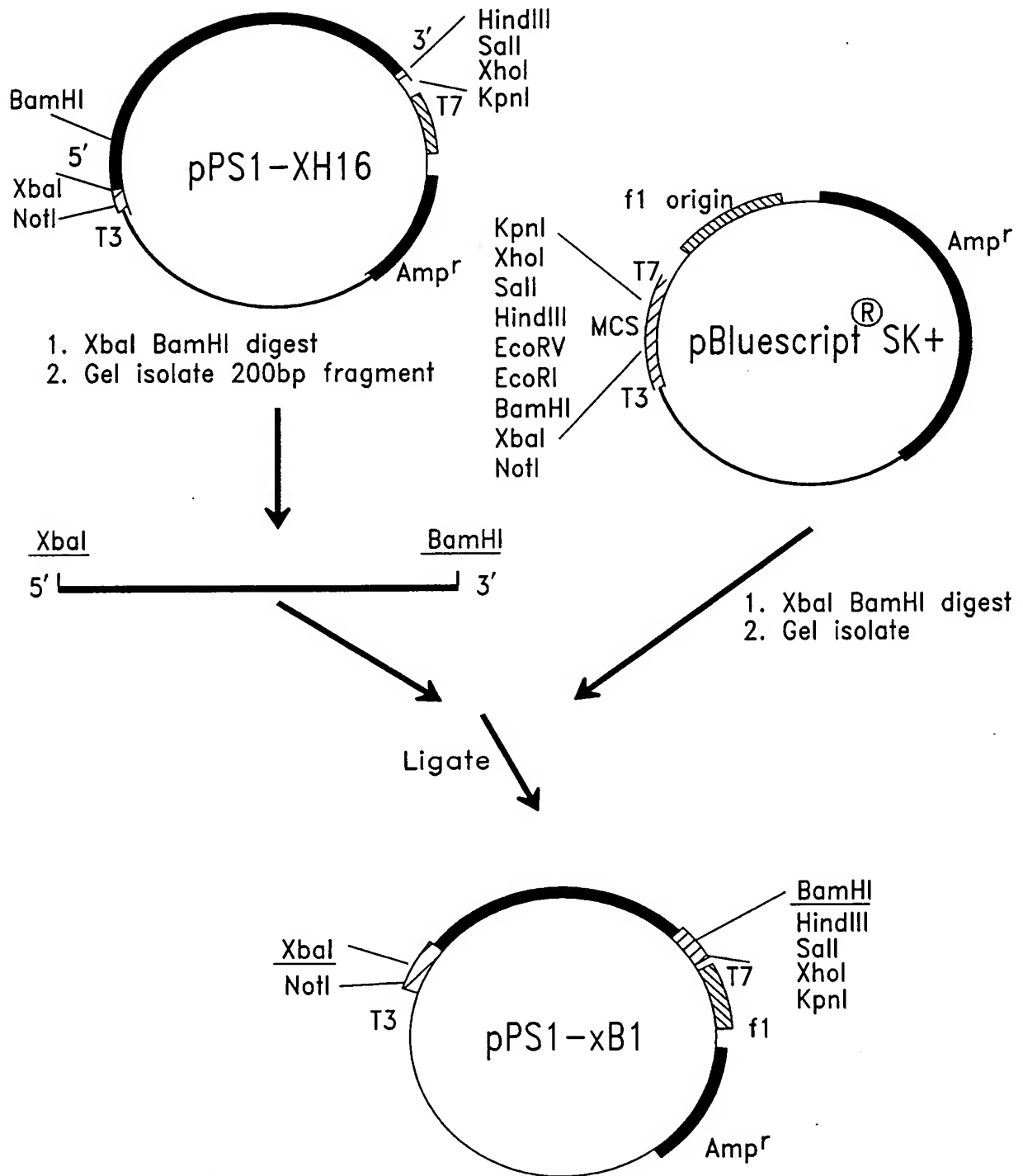


FIG. 8

9/19

pPS1-X15, -X2 Construction

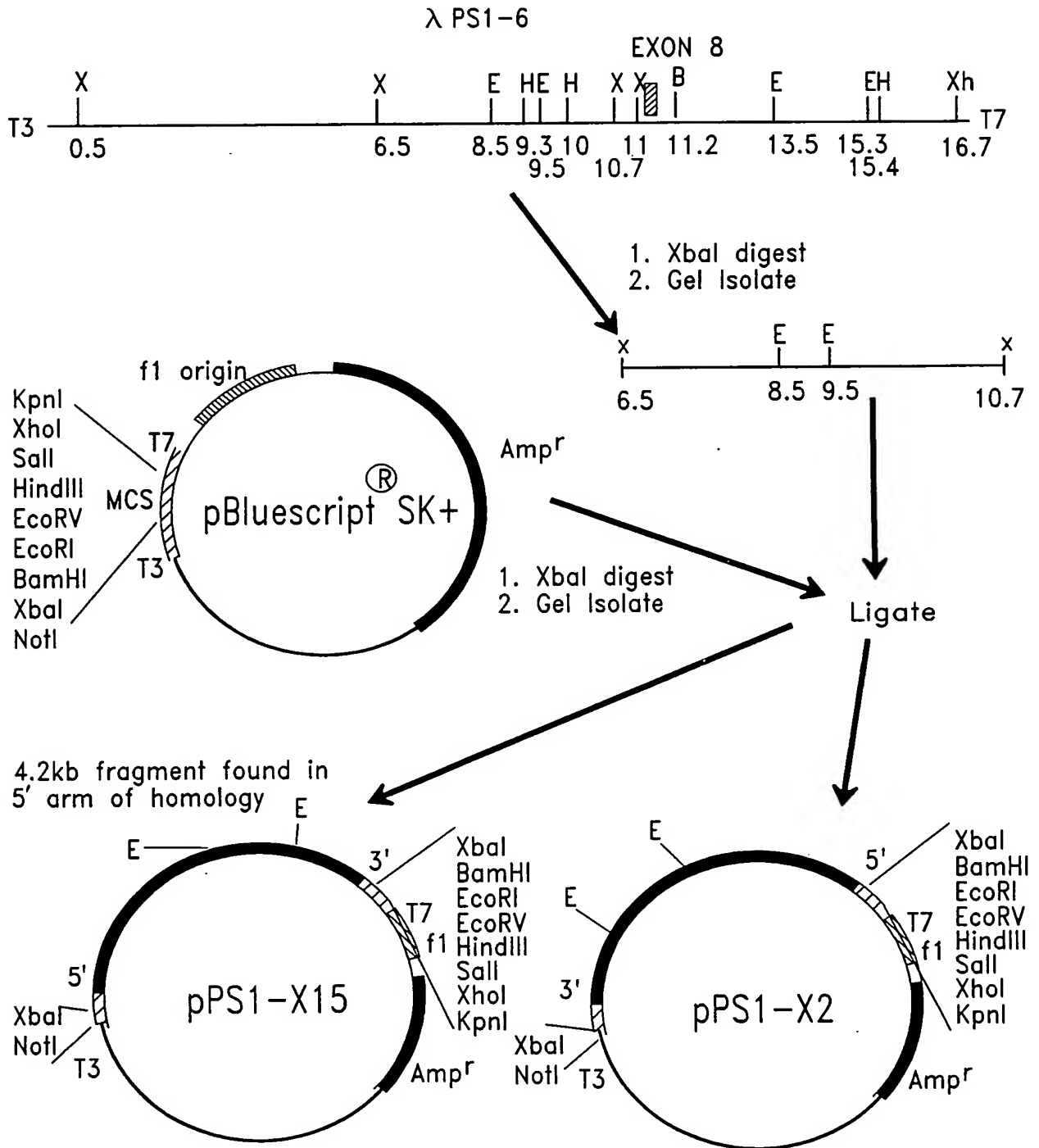


FIG. 9

10/19

pPS1-X319 Construction

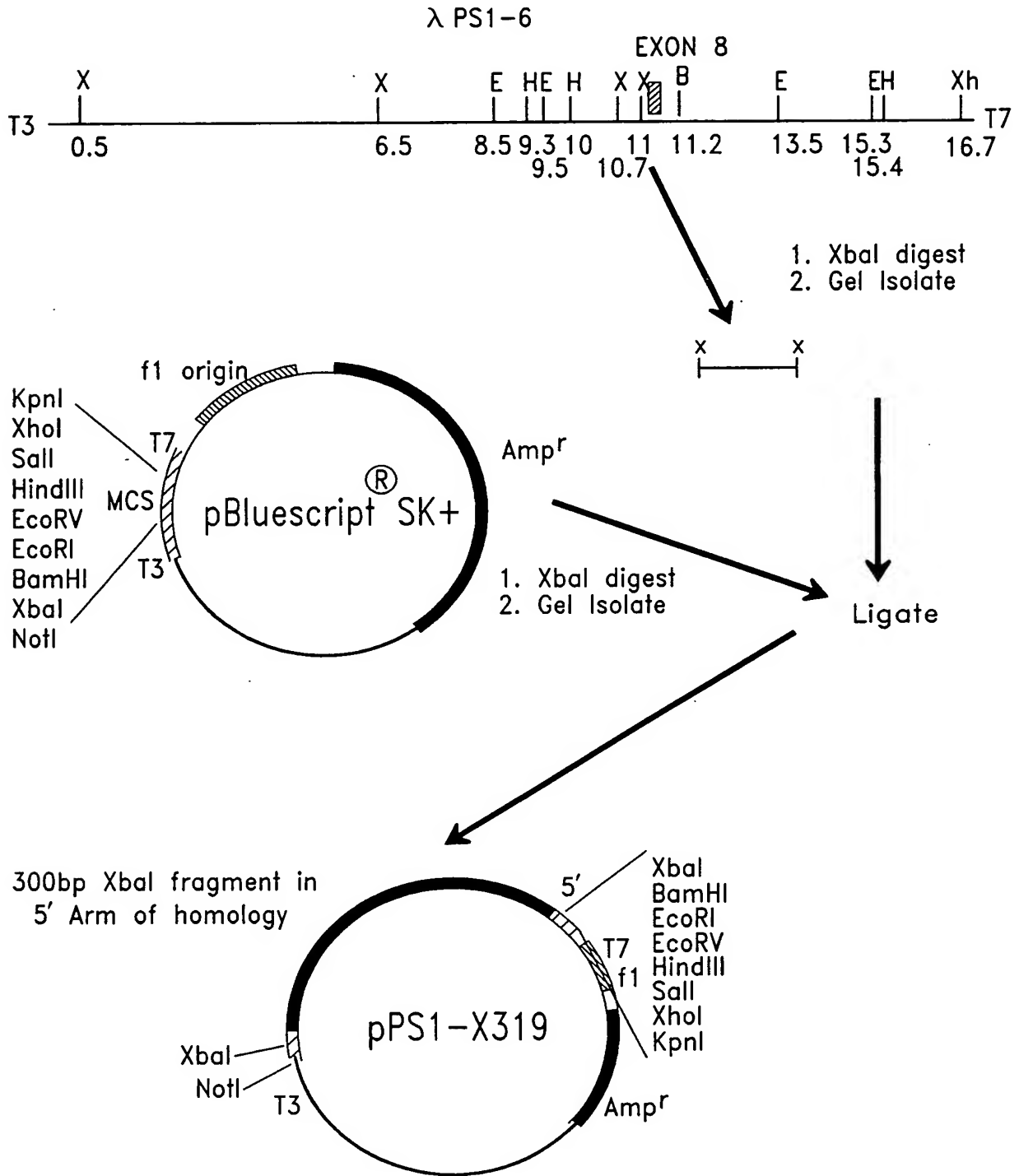


FIG. 10

11/19

Example of Restriction Mapping the 5' Arm of Homology

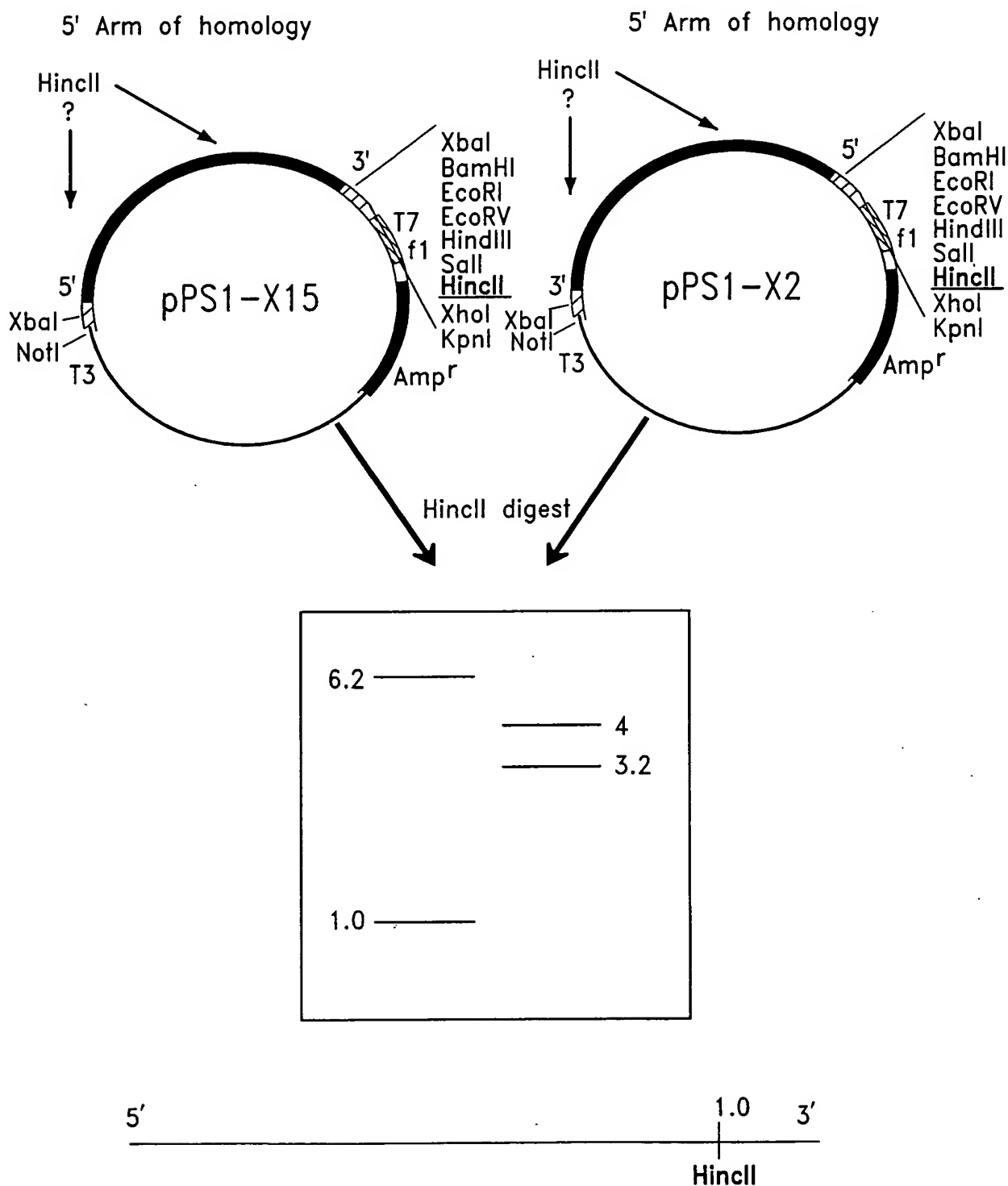


FIG. 11

Detailed Restriction Map Summary For PS1 3' and 5' Arms of Homology

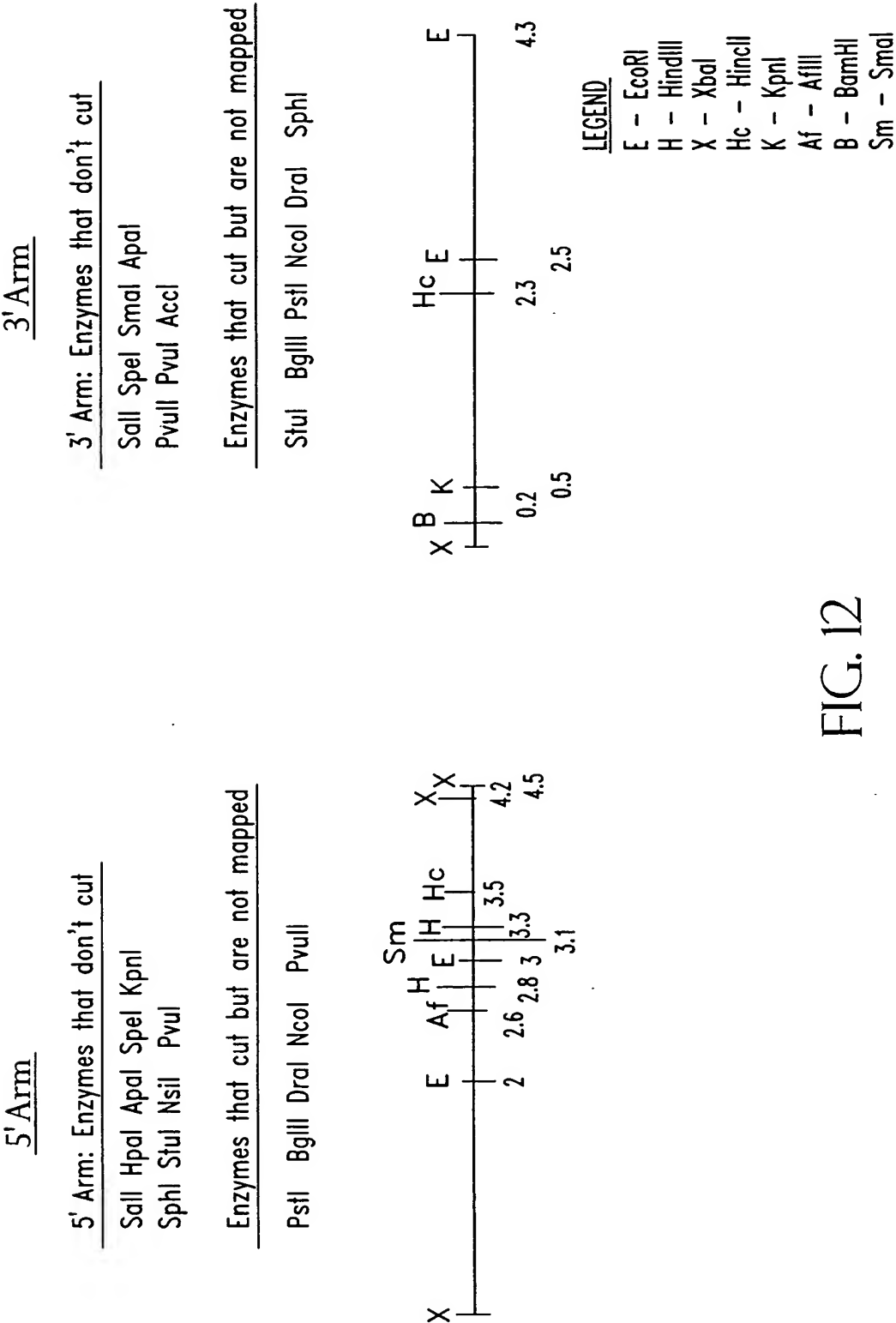


FIG. 12

PS-1 Exon 8 Mutagenesis

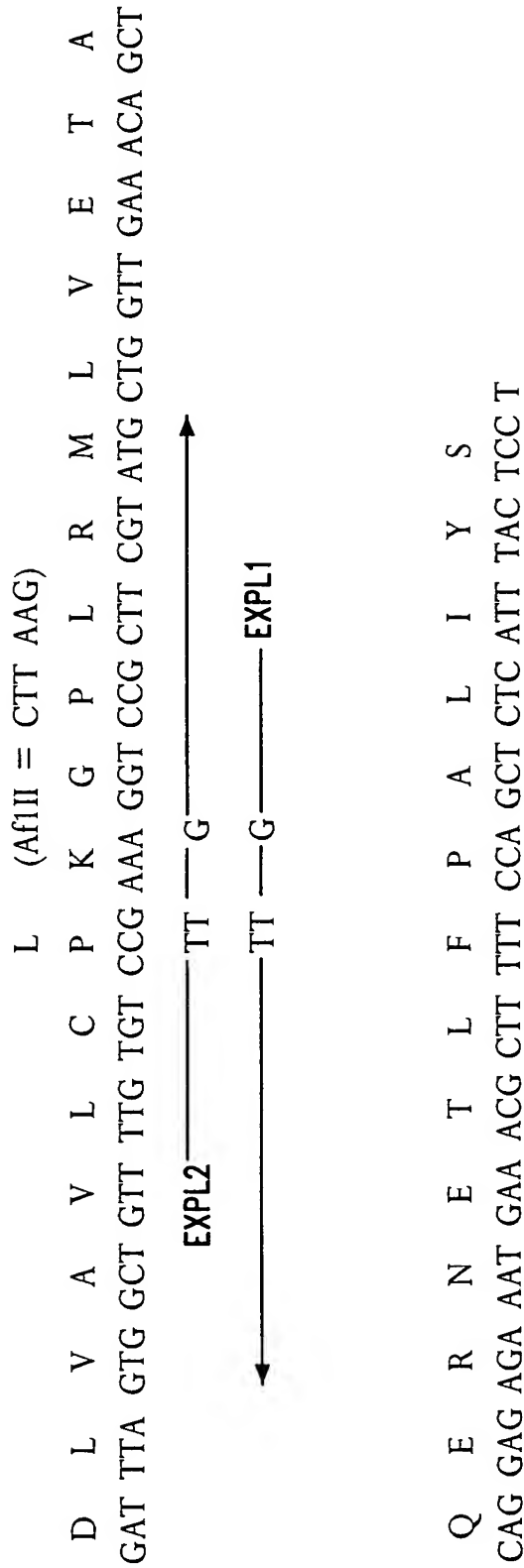


FIG. 13

14/19

pPS1-XB85 Construction

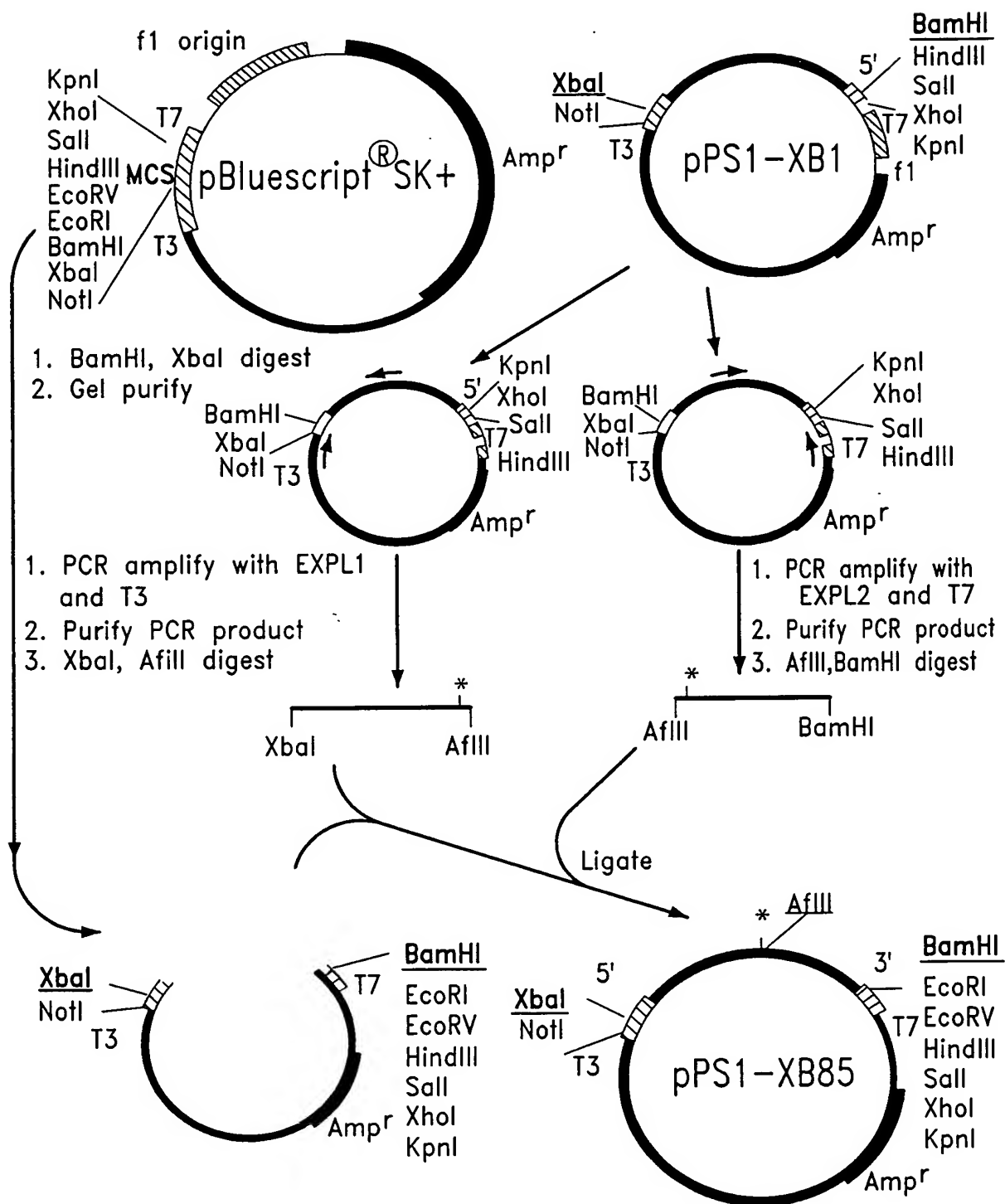


FIG. 14

15/19

pPS1-206 Construction

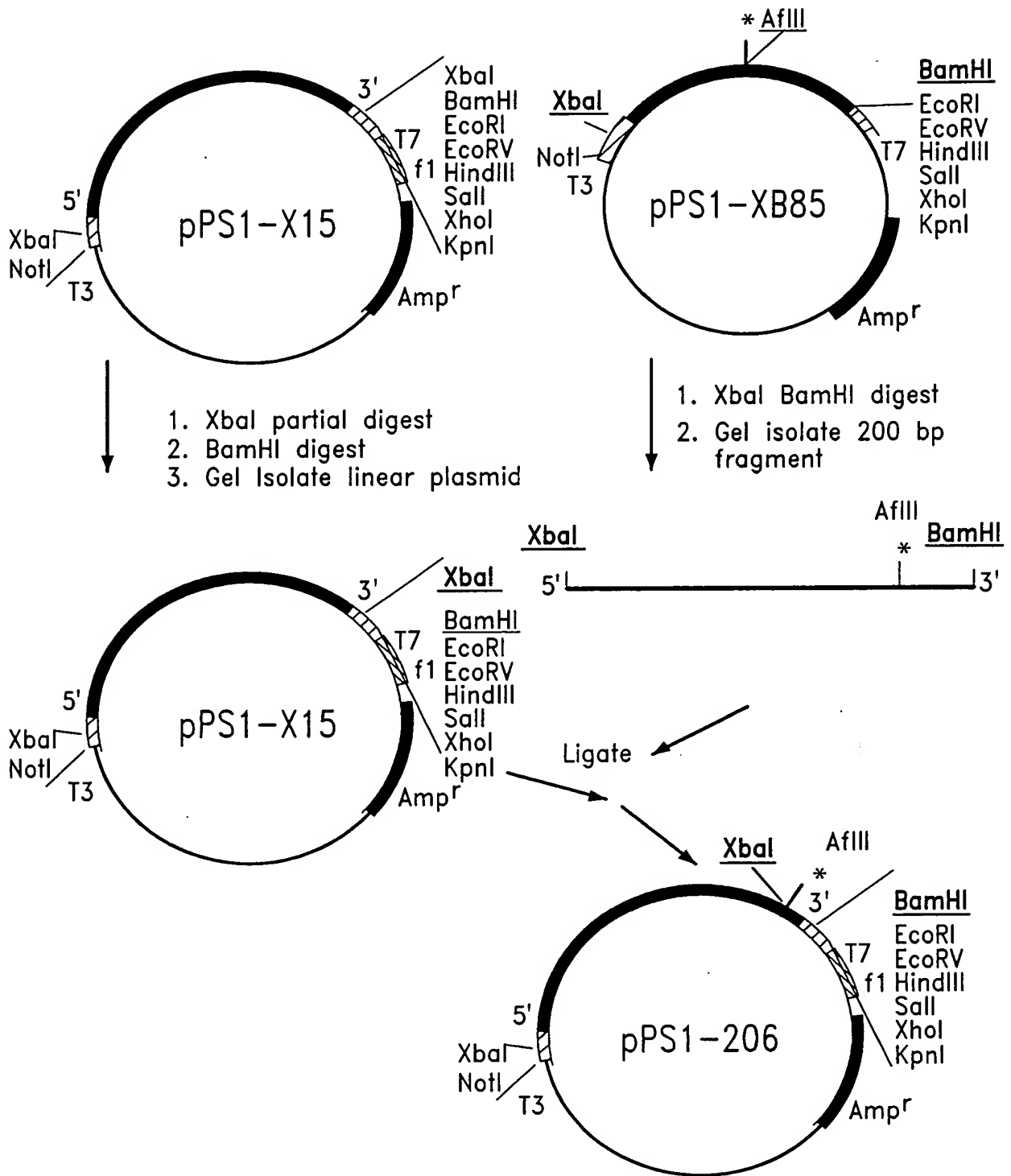


FIG. 15

16/19

pPS1-360 Construction

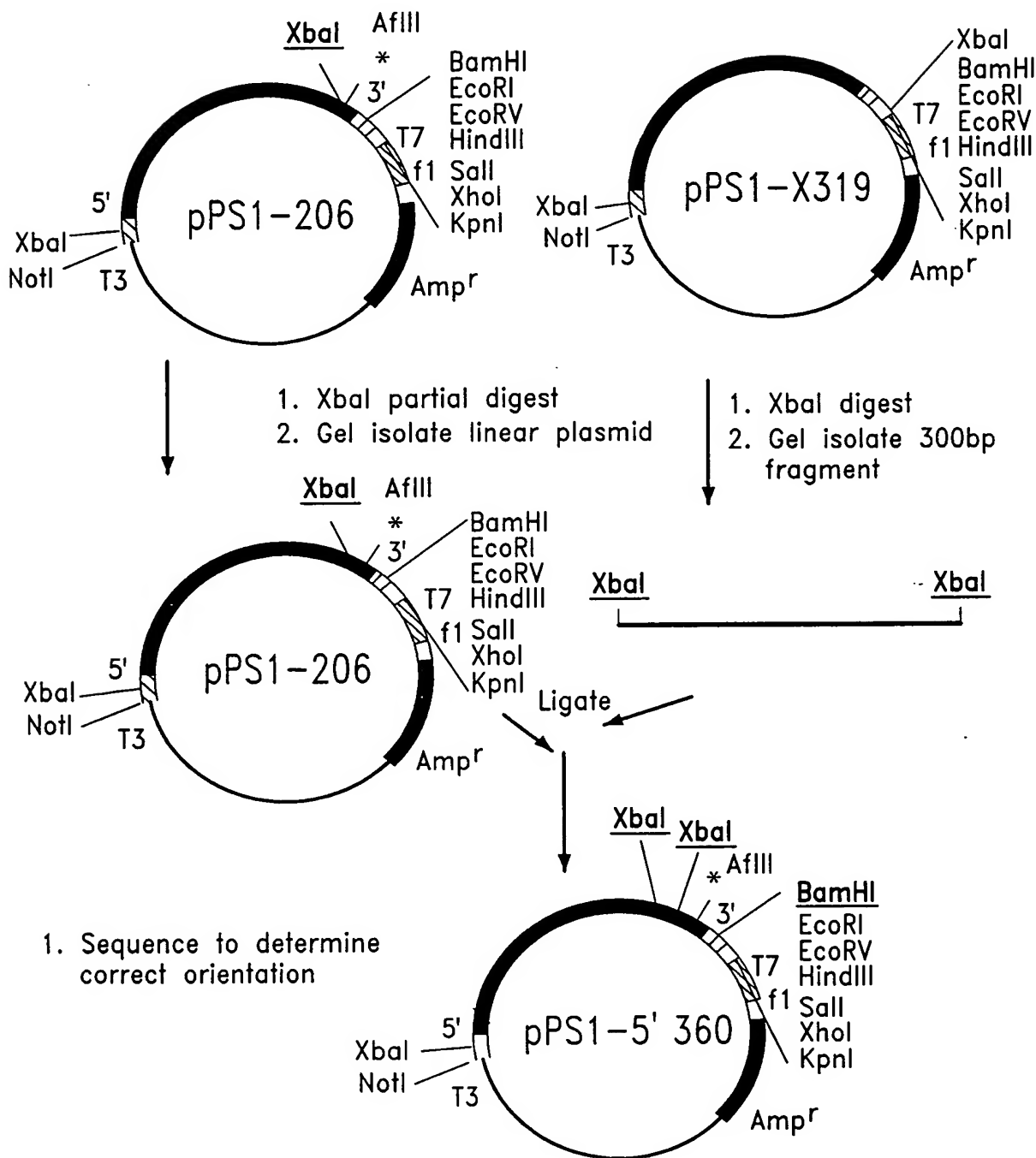


FIG. 16

17/19
 pPNT3'413 Construction

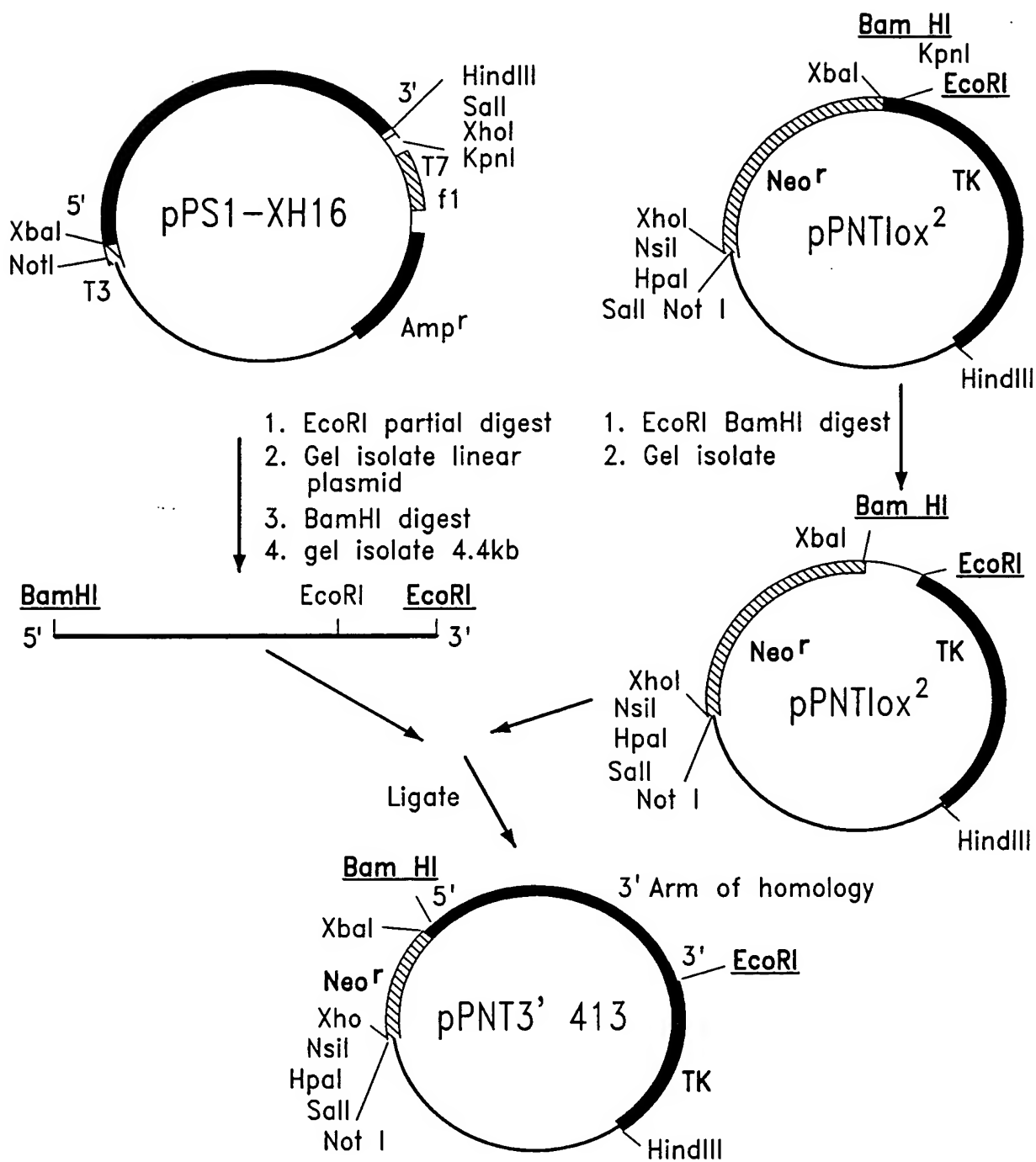


FIG. 17

18/19
 pPS1-8-TV Construction

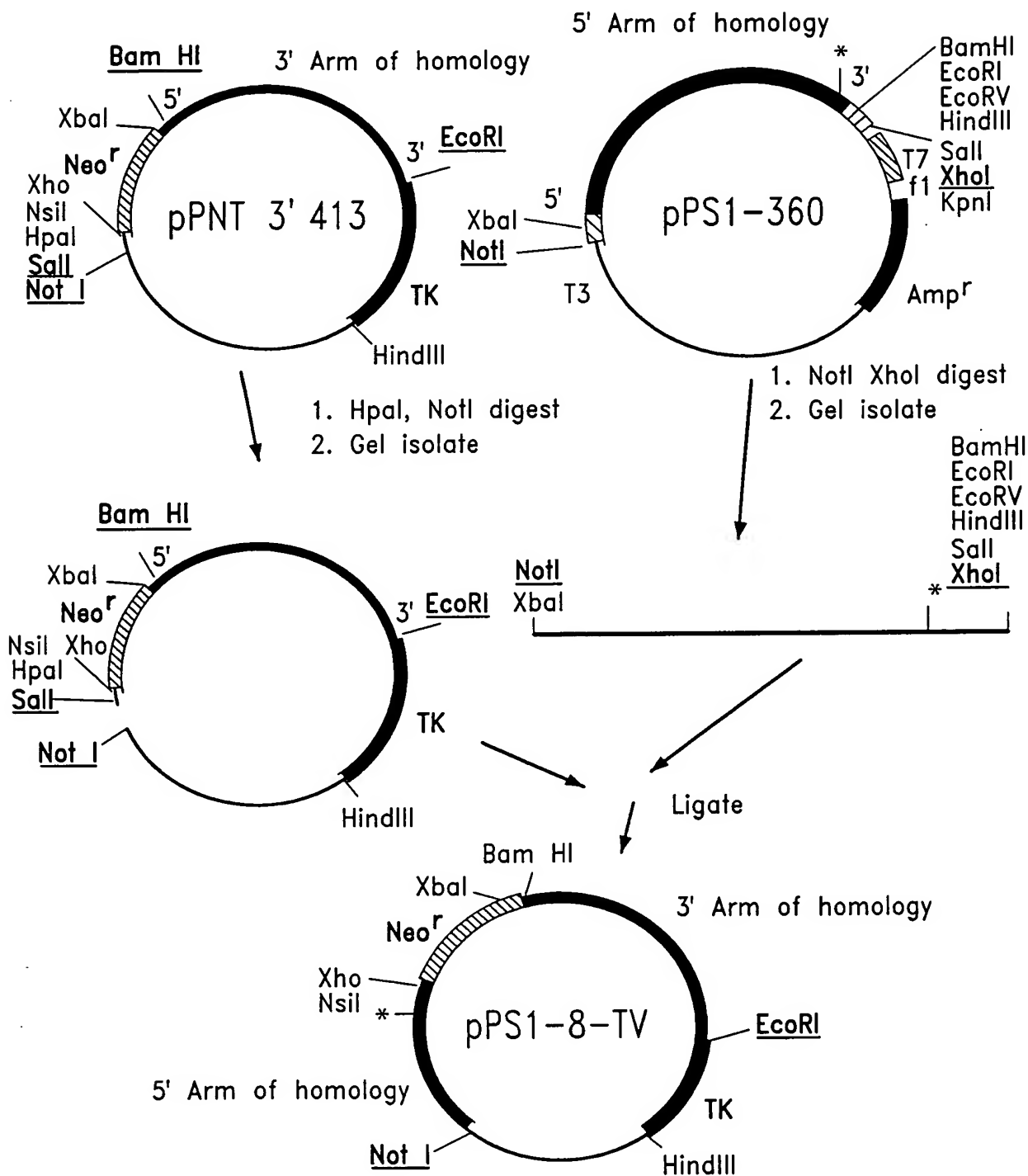


FIG. 18

Strategy to detect homologous recombination within mouse PS1

